

How **Systems Engineering** is making a **difference** in **Automotive R&D**

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major challenges for established automotive OEMs and Tier-1 Suppliers

Increasing product complexity through new technologies and business models

Strict regulatory requirements on traceability, safety and security

Culture & collaboration clash between software and mechatronics development



The Solution: Systems Engineering and Functional Orientation



End-to-end functional ownership



Architecture driven development



Value driven target & maturity management



End-to-end functional responsibility



Virtual development, integration & testing



Requirement compliance & traceability



Cross X continuity



System thinking

8

levers are crucial for a sustainable implementation in Automotive R&D

4

iterative steps for a focused SE implementation

1

ENGAGE the key players

2

SHAPE the solution with the team

3

APPLY the solution, learn, adapt

4

ANCHOR and institutionalize SE

